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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference<br><b>2005-031690</b>  | <b>FOR FURTHER ACTION</b>  | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |
| International application No.<br><b>PCT/US03/36104</b>   | International filing date (day/month/year)<br><b>12 November 2003 (12.11.2003)</b> | Priority date (day/month/year)<br><b>12 November 2000 (12.11.2000)</b>                              |
| International Patent Classification (IPC) or national classification and IPC<br><b>IPC(7): B02C 1/06 and US Cl.: 241/101.73, 266</b> |  |   |
| Applicant<br><b>RAMUN, JOHN, R</b>   |  |   |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 7 sheets.

3. This report contains indications relating to the following items:

- I  Basis of the report
- II  Priority
- III  Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV  Lack of unity of invention
- V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI  Certain documents cited
- VII  Certain defects in the international application
- VIII  Certain observations on the international application

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|---|--|
| Date of submission of the demand<br><b>08 June 2004 (08.06.2004)</b>  | Date of completion of this report<br><b>04 April 2005 (04.04.2005)</b>   |
| Name and mailing address of the IPEA/US<br>Mail Stop PCT, Attn: IPEA/US<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, Virginia 22313-1450<br>Facsimile No. (703) 305-3230 | Authorized officer<br><b>Mark Rosenbaum</b><br><br>Telephone No. 571-272-4050 |

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/36104

**I. Basis of the report**1. With regard to the elements of the international application:<sup>\*</sup> the international application as originally filed. the description:pages 1-8 as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_. the claims:pages None, as originally filed  
pages 9-12c, as amended (together with any statement) under Article 19  
pages None, filed with the demand  
pages None, filed with the letter of \_\_\_\_\_. the drawings:pages 1-13, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_. the sequence listing part of the description:pages NONE, as originally filed  
pages NONE, filed with the demand  
pages NONE, filed with the letter of \_\_\_\_\_.

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

 the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

 contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4.  The amendments have resulted in the cancellation of: the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).<sup>\*\*</sup>*\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).**\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.*

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/US03/36104**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

|                               |                    |     |
|-------------------------------|--------------------|-----|
| Novelty (N)                   | Claims <u>1-36</u> | YES |
|                               | Claims <u>NONE</u> | NO  |
| Inventive Step (IS)           | Claims <u>1-36</u> | YES |
|                               | Claims <u>NONE</u> | NO  |
| Industrial Applicability (IA) | Claims <u>1-36</u> | YES |
|                               | Claims <u>NONE</u> | NO  |

**2. CITATIONS AND EXPLANATIONS**

Claims 1-36 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the tool carrier extending to the end of each jaw.

Claims 1-36 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----

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WO 2004/044349

PCT/US2003/036104

## CLAIMS

### THE INVENTION CLAIMED IS:

1. A multiple tool attachment system for demolition equipment comprising:  
an adapter for coupling the system to existing demolition equipment;  
a body coupled to the adapter;  
a pair of jaws coupled to the body, at least one of the jaws being pivotable, and  
each jaw having a tool carrier; and  
a plurality of tool attachments selectively attachable to each tool carrier for  
forming distinct tool units.
2. The multiple tool attachment system according to claim 1, wherein one of  
the plurality of tool attachments is a cracker attachment.
3. The multiple tool attachment system according to claim 2, wherein the  
cracker attachment includes at least one double rake tooth.
4. The multiple tool attachment system according to claim 3, wherein the  
cracker attachment includes at least one single rake tooth.
5. The multiple tool attachment system according to claim 2, wherein the  
cracker attachment includes at least one single rake tooth.
6. The multiple tool attachment system according to claim 1, wherein one of  
the plurality of tool attachments is a pulverizing attachment.
7. The multiple tool attachment system according to claim 6, wherein the  
pulverizing attachment includes a pair of inserts, each insert including a plurality of teeth.
8. The multiple tool attachment system according to claim 1, wherein one of  
the plurality of tool attachments is a wood shear attachment.
9. The multiple tool attachment system according to claim 8, wherein the  
wood shear attachment includes a blade insert and an anvil insert, the blade insert cooperates  
with the anvil insert.

10. The multiple tool attachment system according to claim 9, wherein:  
the blade insert includes a blade and a piercing tip,  
the anvil insert includes a pair of spaced apart tines, and  
the pair of spaced apart tines are configured to receive the blade therebetween.

11. The multiple tool attachment system according to claim 9, wherein:  
the tool carrier includes a recess, and  
the blade insert includes a projection configured to engage the recess.

12. The multiple tool attachment system according to claim 1, wherein one of  
the plurality of tool attachments is an iron/rail cracker attachment.

13. The multiple tool attachment system according to claim 12, wherein the  
iron/rail cracker attachment includes a single cracker insert.

14. The multiple tool attachment system according to claim 1, wherein the  
iron/rail cracker attachment includes a double cracker insert.

15. The multiple tool attachment system according to claim 1, wherein one of  
the plurality of tool attachments is a grapple attachment.

16. The multiple tool attachment system according to claim 15, wherein the  
grapple attachment includes a pair of grapple inserts.

17. The multiple tool attachment system according to claim 16, wherein the  
pair of grapple inserts each include a plurality of tines.

18. The multiple tool attachment system according to claim 17, wherein the  
plurality of tines of a first grapple insert are offset from the plurality of tines of a second  
grapple insert.

19. The multiple tool attachment system according to claim 17, wherein the  
plurality of tines of a first grapple insert are aligned with the plurality of tines of a second  
grapple insert.

20. The multiple tool attachment system according to claim 16, wherein each of the pair of grapple inserts includes a central cavity.

21. The multiple tool attachment system according to claim 20, wherein each of the pair of grapple inserts further includes:

a retaining bar;

a retaining pin including a slot configured to receive the retaining bar; and

an opening on an end of the insert configured to receive the retaining bar.

22. The multiple tool attachment system according to claim 1, further including a plurality of fasteners,

wherein each tool carrier includes a mounting surface and at least one fastener hole,

one of the plurality of tool attachments engages each mounting surface, and

the plurality of fasteners connect the one of the plurality of tool attachments to the tool carrier via the at least one fastener hole of each tool carrier.

23. The multiple tool attachment system according to claim 22, wherein:

each of the plurality of tool attachments includes at least one lug alignable with the at least one fastener hole, and

one of plurality of fasteners extends through the aligned at least one lug and the at least one fastener hole.

24. The multiple tool attachment system according to claim 22, wherein the plurality of fasteners includes a plurality of bolts and a plurality of nuts engageable with the bolts.

25. The multiple tool attachment system according to claim 1, further including a pair of wear plates adjacent to each of the pair of jaws and distal the body.

26. The multiple tool attachment system according to claim 1, wherein each jaw includes at least one cutting insert.

REPLACED BY  
APT 34 AMDT

WO 2004/044349

PCT/US2003/036104

27. The multiple tool attachment system according to claim 26, further including at least one wear plate adjacent to at least one cutting insert and distal the body.

28. The multiple tool attachment system according to claim 26, wherein at least one jaw includes two cutting inserts.

29. The multiple tool attachment system according to claim 28, wherein the two cutting inserts form an apex.

30. A multiple tool attachment system for demolition equipment comprising:  
a pair of jaws configured to couple to the demolition equipment, at least one of the jaws being pivotable; and  
a plurality of tool attachments selectively attachable to each of the pair of jaws for forming distinct tool units.

31. The multiple tool attachment system according to claim 30, wherein the plurality of tool attachments includes one or more of a cracker attachment, a pulverizing attachment, a wood shear attachment, an iron/rail cracker attachment, and a grapple attachment.

32. A multiple tool attachment system for demolition equipment comprising:  
a pair of jaws configured to couple to the demolition equipment, at least one of the jaws being pivotable, and each jaw having a tool carrier;  
a plurality of tool attachments selectively attachable to each tool carrier of the pair of jaws for forming distinct tool units; and  
a plurality of fasteners;  
wherein each tool carrier includes at least one fastener hole,  
each of the plurality of tool attachments includes at least one attachment hole,  
and  
one of the plurality of fasteners couples one of the plurality of tool attachments to one of the tool carriers at the at least one fastener hole and the at least one attachment hole.